

## CLAIMS

We claim:

1        1.    A method for creating documents from within a place in  
2        collaboration space, comprising the steps of:

3            operating a browser to display a user interface to said  
4            place including an editor selection control;

5            from within said browser, upon user selection of said  
6            editor selection control, automatically launching a  
7            corresponding editor for editing said document; and

8            upon closing said corresponding editor, loading said  
9            document to said place.

1        2.    A method for creating an application enabled object in  
2        a place in collaboration space, comprising the steps of:

3            providing at a browser a user interface to said place,  
4            said user interface including an upload control;

5           executing round trip editing to prepare a data file;  
  
6           loading said data file to said upload control; and  
  
7           upon loading said data file to said upload control,  
8           transferring said data file to a server for conversion  
9           and storage as said application enabled object in said  
10          place.

1          3.    The method of claim 2, said data file being selectively  
2          a Microsoft Office or Lotus SmartSuite document.

1          4.    The method of claim 2, said round trip editing further  
2          comprising the steps of:

3                creating said data file using an editor application  
4                independently of said place in collaboration space;

5                importing said data file into said place;

6                responsive to user selection at said user interface,

7 loading said data file from said place to said  
8 browser;  
  
9 launching said editor application; and  
  
10 opening said data file in said editor application  
11 for further editing at said browser.

1 5. The method of claim 2, said round trip editing further  
2 comprising the steps of:

3 creating said data file at said interface to said  
4 place;

5 designating the content of said data file as of an  
6 application type;

7 launching an editor corresponding to said application  
8 type;

9 editing said data file using said editor;

10 upon closing said editor, importing said data file into  
11 said place;

12 responsive to user selection at said user interface,  
13 loading said data file from said place to said  
14 browser;  
15 launching said editor application; and  
16 opening said data file in said editor application  
17 for further editing at said browser.

1 6. A method for creating Microsoft Office documents from  
2 within a place in collaboration space, comprising the steps  
3 of:

4 opening a user interface to said place at a browser;  
5 operating said user interface to launch a Microsoft  
6 Office application;  
7 using said application to create said document;  
8 upon closing said application, loading said document to  
9 said place.

1        7.    The method of claim 6, further comprising the steps of:  
2  
3        responsive to user creation or edit of a place document  
4        based on Microsoft Office application, automatically  
5        launching said application to allow said user to edit  
6        said document using said application.

1        8.    A method for preparing a custom theme for a place in  
2        collaboration space, comprising the steps of:  
3  
4        opening an editor from within said collaboration space;  
5  
6        opening a theme source code file in said editor;  
7  
8        editing said theme source code file according to said  
9        theme;  
10  
11        automatically upon saving said theme source code file  
12        and exiting said editor, uploading changes to said  
13        theme source code file to said collaboration space.

1        9.    A method for creating documents from within a place in  
2        collaboration space, comprising the steps of:

3 operating a browser at a client to display a user  
4 interface to said place, said user interface including  
5 a new selector;

6 responsive to user selection of said new selector,  
7 displaying in said user interface a list of available  
8 page types, said list including choices corresponding  
9 to page editing applications installed on said client;

10 responsive to user selection of an editing application  
11 from said list, displaying a new scene including an  
12 upload control and a file icon representing the file  
13 being created; and launching said editing application  
14 in the foreground displaying said file as a new, empty  
15 file;

16 responsive to said user closing said editing  
17 application,

18 detecting that said file is no longer being edited  
19 and bringing said user interface to said place to  
20 the foreground;

21 converting said file to a hypertext file, and  
22 displaying said file in said upload control;

23 responsive to said user publishing said file, uploading  
24 to said server said file along with its equivalent  
25 hypertext file.

26 at said server, attaching said file and said equivalent  
27 hypertext file to the same place document

1 10. The method of claim 9, further comprising the step of  
2 attaching said file and said equivalent hypertext file to a  
3 same Notes document.

1 11. The method of claim 9, comprising the further steps of  
2 generating said list using a hidden ActiveX upload control  
3 downloaded to said client from a server, said ActiveX upload  
4 control generating said list by listing only those  
5 applications for which said upload control successfully  
6 obtains a pointer to respective automation server objects.

1 12. A method for editing a document from within a place at  
2 a server in collaboration space, comprising the steps of:

3 operating a browser at a client to display a user  
4 interface to said place, said user interface including  
5 an edit selector;

6 responsive to user selection of said edit selector,  
7 displaying an edit scene including an upload control,  
8 said upload control including a document icon  
9 representing the document being edited, and launching  
10 said editing application in the foreground displaying  
11 said document;

12 responsive to said user closing said editing  
13 application,

14 detecting that said document is no longer being  
15 edited and bringing said user interface to said  
16 place to the foreground;

17 converting said document to a hypertext file;

18 responsive to said user publishing said document,  
19 uploading to said server said document along with its  
20 equivalent hypertext file.



1 13. The method of claim 12, further comprising the steps  
2 of:

3 saving said document to client storage as a web page  
4 including the text of said document and formatting  
5 information saved as tags together with support files;

6 said uploading step including locating in said client  
7 storage and uploading said formatting information tags  
8 and support files.

1 14. The method of claim 13, further including the steps:

2 responsive to said user selecting said edit selector,  
3 displaying said edit scene including indicia  
4 representing said document and automatically launching  
5 an application for editing said document displaying  
6 said document in its original form;

7 responsive to said user making changes to and closing  
8 said document, again uploading to said server said  
9 document and all support files.

1 15. System for creating an application enabled object in a  
2 place in collaboration space, comprising the steps of:

3 a browser for displaying at a client a user interface  
4 to said place, said user interface including an upload  
5 control and an edit control;

6 an editor application for creating and editing a data  
7 file;

8 a data storage for storing a data file;

9 an upload control responsive to receiving said data  
10 file for transferring said data file to a server for  
11 conversion and storage as said application enabled  
12 object in said place.

1 16. The system of claim 15, further comprising:

2 said editor application creating said data file  
3 independently of said place in collaboration space;

4 said user interface being responsive to user selection  
5 of said edit control for loading said data file from

6           said place to said browser, launching said editor  
7           application; and opening said data file in said editor  
8           application for further editing at said browser.

1       17. A system for editing Microsoft Office documents from  
2       within a place in collaboration space, comprising:

3           a client browser for presenting a user interface to  
4           said place;

5           a Microsoft Office application for creating said  
6           document;

7           an upload control, responsive to closing said  
8           application, for loading said document to said place;

9           said user interface being responsive to user selection  
10          of an edit operation for downloading said document from  
11          said place and opening said document in said  
12          application for editing.

1       18. A program storage device readable by a machine,  
2       tangibly embodying a program of instructions executable by a

3 machine to perform method steps for creating documents from  
4 within a place in collaboration space, said method steps  
5 comprising:

6 operating a browser to display a user interface to said  
7 place including an editor selection control;

8 from within said browser, upon user selection of said  
9 editor selection control, automatically launching a  
10 corresponding editor for editing said document; and

11 upon closing said corresponding editor, loading said  
12 document to said place.

1 19. A program storage device readable by a machine,  
2 tangibly embodying a program of instructions executable by a  
3 machine to perform method steps for creating an application  
4 enabled object in a place in collaboration space, said  
5 method steps comprising:

6 providing at a browser a user interface to said place,  
7 said user interface including an upload control;

8 executing round trip editing to prepare a data file;

loading said data file to said upload control; and

upon loading said data file to said upload control,  
transferring said data file to a server for conversion  
and storage as said application enabled object in said  
place.

20. A program storage device readable by a machine,  
tangibly embodying a program of instructions executable by a  
machine to perform method steps for creating documents from  
within a place in collaboration space, said method steps  
comprising:

operating a browser at a client to display a user  
interface to said place, said user interface including  
a new selector;

responsive to user selection of said new selector,  
displaying in said user interface a list of available  
page types, said list including choices corresponding  
to page editing applications installed on said client;

responsive to user selection of an editing application  
from said list, displaying a new scene including an

15 upload control and a file icon representing the file  
16 being created; and launching said editing application  
17 in the foreground displaying said file as a new, empty  
18 file;

19 responsive to said user closing said editing  
20 application,

21 detecting that said file is no longer being edited  
22 and bringing said user interface to said place to  
23 the foreground;

24 converting said file to a hypertext file, and  
25 displaying said file in said upload control;

26 responsive to said user publishing said file, uploading  
27 to said server said file along with its equivalent  
28 hypertext file.

29 at said server, attaching said file and said equivalent  
30 hypertext file to the same place document

1 21. A program storage device readable by a machine,  
2 tangibly embodying a program of instructions executable by a

3 machine to perform method steps editing a document from  
4 within a place at a server in collaboration space, said  
5 method steps comprising:

6 operating a browser at a client to display a user  
7 interface to said place, said user interface including  
8 an edit selector;

9 responsive to user selection of said edit selector,  
10 displaying an edit scene including an upload control,  
11 said upload control including a document icon  
12 representing the document being edited, and launching  
13 said editing application in the foreground displaying  
14 said document;

15 responsive to said user closing said editing  
16 application,

17 detecting that said document is no longer being  
18 edited and bringing said user interface to said  
19 place to the foreground;

20 converting said document to a hypertext file;

21 responsive to said user publishing said document,  
22 uploading to said server said document along with its  
23 equivalenten hypertext file;

24 saving said document to client storage as a web page  
25 including the text of said document and formatting  
26 information saved as tags together with support files;

27 said uploading step including locating in said client  
28 storage and uploading said formatting information tags  
29 and support files;

30 responsive to said user selecting said edit selector,  
31 displaying said edit scene including indicia  
32 representing said document and automatically launching  
33 an application for editing said document displaying  
34 said document in its original form; and

35 responsive to said user making changes to and closing  
36 said document, again uploading to said server said  
37 document and all support files.



1 22. A computer program product or computer program element  
2 for creating documents from within a place in collaboration  
3 space according to the steps comprising:

4 operating a browser to display a user interface to said  
5 place including an editor selection control;

6 from within said browser, upon user selection of said  
7 editor selection control, automatically launching a  
8 corresponding editor for editing said document; and

9 upon closing said corresponding editor, loading said  
10 document to said place.